

INSPECTION REPORT

APPLICABLE DOC. REF.

AMS02-PDS PFM Manufacturing and Inspection Plan PDS-PL-CGS-001
is. 1

PROC. REF.

N.A.

ITEM INSPECTED (Name, P/N, S/N) AMS02-PDS PFM – BOARDS — Inspection Point.

REQUIREMENT SATISFIED

Manufacturing according to aerospace standards

INSPECTION (Action/Results)

DESCRIPTION

Inspection was performed at Carlo Gavazzi Space premises starting on 04 June 2008 and was carried out on the following boards, detail of the inspected boards were below reported:

- 1) PB2 FPGA BOARD ASSY p/n:11-AMS02PDS-710.00 s/n:07-038 / E.
- 2) PB2 FPGA BOARD ASSY p/n:11-AMS02PDS-710.00 s/n:07-038 / F.
- 3) PB2 FPGA BOARD ASSY p/n:11-AMS02PDS-710.00 s/n:07-038 / G.
- 4) Can Bus I/F Board ASSY p/n:11-AMS02PDS-500.00 s/n:01 (pcb s/n:A1-1A).

HARDWARE REVIEW

1) PB2 FPGA BOARD ASSY p/n:11-AMS02PDS-710.00 s/n:07-038 / E, Assy:11-AMS02PDS-710.00 rev./, Parts List: 11-AMS02PDS-710.01rev.A, Electrical Scheme: 11-AMS02PDS-710.02 rev./, Master PCB:11-AMS02PDS-710.03 rev./.

The following PLVSS (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-710.01 rev A – A1 can be considered closed.
- 11-AMS02PDS-710.01 rev A – A2 can be considered closed.
- 11-AMS02PDS-710.01 rev A – A3 can be considered closed

On the pcb the U8 (A1020B-CQ84B FPGA) component is not mounted.

The H/W has been visually inspected and is ok: no damage, visible clean is ok.

2) PB2 FPGA BOARD ASSY p/n:11-AMS02PDS-710.00 s/n:07-038 / F, Assy:11-AMS02PDS-710.00 rev./, Parts List: 11-AMS02PDS-710.01rev.A, Electrical Scheme: 11-AMS02PDS-710.02 rev./, Master PCB:11-AMS02PDS-710.03 rev./.

The following PLVSS (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-710.01 rev A – A1 can be considered closed.
- 11-AMS02PDS-710.01 rev A – A2 can be considered closed.
- 11-AMS02PDS-710.01 rev A – A3 can be considered closed

On the pcb the U8 (A1020B-CQ84B FPGA) component is not mounted.

The H/W has been visually inspected and is ok: no damage, visible clean is ok.

Operator

Quality Assurance

C.C. ^

Signature

E. FRANCHI

C. CINQUEPALMI

Date

04/06/08

c. edyola
13/06/08

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INSPECTION (Action/Results)

3) PB2 FPGA BOARD ASSY p/n:11-AMS02PDS-710.00 s/n:07-038 / G, Assy:11-AMS02PDS-710.00 rev./, Parts List: 11-AMS02PDS-710.01rev.A, Electrical Scheme: 11-AMS02PDS-710.02 rev./, Master PCB:11-AMS02PDS-710.03 rev./.

The following PLVss (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-710.01 rev A – A1 can be considered closed.
- 11-AMS02PDS-710.01 rev A – A2 can be considered closed.
- 11-AMS02PDS-710.01 rev A – A3 can be considered closed

On the pcb the U8 (A1020B-CQ84B FPGA) component is not mounted.

The H/W has been visually inspected and is ok: no damage, visible clean is ok.

4) Can Bus I/F Board ASSY p/n:11-AMS02PDS-500.00 s/n:01 (pcb s/n:A1-1A), Assy:11-AMS02PDS-500.00 rev./, Parts List:11-AMS02PDS-500.01 rev./, Electrical Scheme:11-AMS02PDS-500.02 rev./, Master PCB:11-AMS02PDS-500.03 rev./.

The following NCR were presented during the inspection:

- NCR-PDS-CGS-C-036(output clock line driver enable control problem), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added wire with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.
- NCR-PDS-CGS-C-051(OVC protection improvement), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added components and wires with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.
- NCR-PDS-CGS-C-052(C197 footprint wrong on pcb), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the component with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.

The following PLVss (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-500.01 rev / - A1 can be considered closed.
- 11-AMS02PDS-500.01 rev / - A2 can be considered closed.
- 11-AMS02PDS-500.01 rev / - A3 can be considered closed.
- 11-AMS02PDS-500.01 rev / - A4 can be considered closed.

On the pcb the U8 (DS18S20 thermometer) component is not mounted.

The H/W has been visually inspected and is ok: no damage, visible clean is ok.

Operator

Quality Assurance

C.C.

Signature

Date

E. FRANCONI

04/06/08

C. CINQUEPAGNI
C. Cinqueni
13/06/08

 <p>CARLO GAVAZZI</p> <p>CARLO GAVAZZI SPACE SpA</p>	<p>AMS02-PDS</p>	<p>DOC N°: PDS-RP-CGS-013</p> <p>ISSUE : 1 DATE: 04/06/2008</p> <p>PAGE : 3 of 3</p>
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<p>INSPECTION (Action/Results)</p> <p><u>CONCLUSION</u></p> <p>All solder joints are of adequate quality, the soldering process complies to ECSS-Q-70-08 and ECSS-Q-70-38, all modifications are performed according to ECSS-Q-70-28.</p> <p>The open points are here listed:</p> <ol style="list-style-type: none"> 1) On PB2 FPGA BOARD ASSY p/n:11-AMS02PDS-710.00 s/n:07-038 / E the U8 (A1020B-CQ84B FPGA) component is not mounted. 2) On PB2 FPGA BOARD ASSY p/n:11-AMS02PDS-710.00 s/n:07-038 / F the U8 (A1020B-CQ84B FPGA) component is not mounted. 3) On PB2 FPGA BOARD ASSY p/n:11-AMS02PDS-710.00 s/n:07-038 / G the U8 (A1020B-CQ84B FPGA) component is not mounted. 4) NCR-PDS-CGS-C-036(output clock line driver enable control problem), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added wire with adhesive EC 2216 B/A, perform a visual inspection of the previous rework. 5) NCR-PDS-CGS-C-051(OVC protection improvement), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added components and wires with adhesive EC 2216 B/A, perform a visual inspection of the previous rework. 6) NCR-PDS-CGS-C-052(C197 footprint wrong on pcb), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the component with adhesive EC 2216 B/A, perform a visual inspection of the previous rework. 7) On Can Bus I/F Board ASSY p/n:11-AMS02PDS-500.00 s/n:01 (pcb s/n:A1-1A) the U8 (DS18S20 thermometer) component is not mounted. 	
<p>Operator</p> <p>Signature</p> <p>Date</p>	<p>Quality Assurance</p> <p>C.C.</p>

E. FRANCINI

04/06/08

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